

NFPA	HMIS	PPE						
	<table border="1"> <tr> <td>Health Hazard</td> <td>1*</td> </tr> <tr> <td>Fire Hazard</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health Hazard	1*	Fire Hazard	0	Reactivity	0	
Health Hazard	1*							
Fire Hazard	0							
Reactivity	0							

*Indicates a chronic health hazard.

Issuing Date 21-May-2010

Revision Date 09-Jun-2011

Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name

FLAMEBLOC GS 700

Supplier Address

Buckman Laboratories, Inc.
1256 North McLean Blvd.
Memphis, TN 38128
USA
TEL: 1-800-BUCKMAN

Company Emergency Phone Number 1-901-767-2722

2. HAZARDS IDENTIFICATION

May cause eye irritation
Contains a known or suspected reproductive toxin

Appearance Colorless.

Physical State Liquid.

Odor Odorless

Potential Health Effects

Principle Routes of Exposure

Inhalation. Skin contact. Eye contact.

Acute Toxicity

Eyes

May cause irritation.

Skin

No known hazard in contact with skin. Prolonged skin contact may cause skin irritation.

Inhalation

No known hazard by inhalation.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Contains a known or suspected reproductive toxin.

Aggravated Medical Conditions

Skin disorders. Pre-existing eye disorders. Respiratory disorders.

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

While some substances are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document.

Chemical Name	CAS-No	Weight %
Sodium bromide	7647-15-6	10-15
Boric acid (H3BO3)	10043-35-3	3-7

4. FIRST AID MEASURES

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Skin Contact	Wash off with water. If symptoms persist, call a physician.
Inhalation	Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, call a physician.
Ingestion	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.
Flash Point	Not combustible.
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous Combustion Products	Nitrogen oxides (NOx). Ammonia. Hydrogen bromide.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
NFPA	Health Hazard 1 Flammability 0 Stability 0 Physical and Chemical Hazards N/A
HMIS	Health Hazard 1* Flammability 0 Physical Hazard 0 Personal Protection B

*Indicates a chronic health hazard.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid contact with the skin and the eyes. Ensure adequate ventilation.
Environmental Precautions	Refer to protective measures listed in Sections 7 and 8.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation.
Storage	Keep container tightly closed in a dry and well-ventilated place. Keep at temperatures between 4 and 32 °C (40 and 90 °F).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Boric acid (H ₃ BO ₃) 10043-35-3	TWA: 2 mg/m ³ inhalable fraction STEL: 6 mg/m ³ inhalable fraction		

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

Eye/Face Protection
Skin and Body Protection
Respiratory Protection

Safety glasses with side-shields.
Protective gloves.
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless.	Odor	Odorless.
Physical State	Liquid	pH	5.5-6.5
Flash Point	Not combustible.	Boiling Point/Boiling Range	100°C / 212°F
Melting Point/Range	No information available		
Flammability Limits in Air	No information available.		
Specific Gravity	1.19-1.23 g/ml	Solubility	Soluble in water
Evaporation Rate	No information available	Vapor Pressure	No data available
Vapor Density	No data available		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Strong bases.
Conditions to Avoid	Incompatible products.
Hazardous Decomposition Products	Ammonia. Nitrogen oxides (NO _x). Hydrogen bromide.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

LD50 Oral VALUE > 5000 mg/kg (rat)

Chronic Toxicity

Chronic Toxicity Contains a known or suspected reproductive toxin.

Reproductive Toxicity Category 2: Substances which should be regarded as if they impair fertility in humans.

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity Effects

The environmental impact of this product has not been fully investigated.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Do not re-use empty containers.

California Hazardous Waste Codes 135

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Boric acid (H3BO3)	Toxic

14. TRANSPORT INFORMATION

Note:

The shipping description is specified to the container and mode of shipment. Please refer to the shipping papers for this information. If you have additional questions, please call 1-800-BUCKMAN.

15. REGULATORY INFORMATION

FDA (Food and Drug Administration)

This product is allowed under the following FDA (21 CFR) sections: Not available.

BfR (Bundesinstitut für Risikobewertung)

This product meets the requirement of Bundesinstitut für Risikobewertung (BfR) under: Not available.

International Inventories

TSCA

All components are listed on the TSCA Inventory.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

16. OTHER INFORMATION

Prepared for	Buckman Laboratories, Inc. 1256 North McLean Memphis, TN 38108 1-800-BUCKMAN
Issuing Date	21-May-2010
Revision Date	09-Jun-2011
Revision Note	Change to physical properties.

General Disclaimer

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Data Sheet is the responsibility of the user. This Material Data Safety Sheet was prepared to comply with the OSHA Hazard Communication regulations. While some components are claimed Trade Secret under OSHA Hazard Communication regulations, all known OSHA hazards associated with the Trade Secret component(s), if contained in this product, are fully disclosed.

Buckman Laboratories, Inc. warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty.

The exclusive remedy against seller shall be in a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort.

Any controversy or claim arising out of or relating to this contract, or breach thereof, shall be settled by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgment upon the rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

End of Safety Data Sheet